

**REMARKS/ARGUMENTS**

Claims 1-4, 8-19 and 21-33 are pending in this application. By this Amendment, claims 1, 8, 10-13, 19, 21, 23 and 25 are amended, claims 5-7 and 20 are canceled without prejudice or disclaimer and claims 26-33 are newly added. Reconsideration in view of the above amendments or the following remarks is respectfully requested.

Applicant sincerely acknowledges the Office Action's indication that claims 13 and 20-21 define patentable subject matter. However, for at least the reasons set forth below, Applicant respectfully submits all pending claims are in condition for allowance.

A. The Office Action rejects claims 1-10 and 25 under 35 U.S.C. §102(b) or §103(a) over U.S. Patent No. 6,377,219 to Smith. The Office Action also rejects claims 19 and 23-24 under 35 U.S.C. §102(b) over Smith. The rejections are respectfully traversed.

Applicant respectfully submits that subject matter indicated to be allowable in claim 13 has been incorporated into independent claim 25. Further, subject matter indicated to be allowable in claim 20 has been incorporated into claim 19.

With respect to claim 1, Applicant respectfully submits that Smith does not disclose at least features of a mobile device for a mobile communication system including a case, a communication module and a heat dissipation system, wherein the heat dissipation system includes a heat pipe coupled to the communication module that extends to outside the case, wherein an antenna passes through an inner portion of the heat pipe and combinations thereof as recited. In contrast, Applicant respectfully submits that Smith discloses heat exchanger 10 also serves as an antenna for a cellular telephone using the outer shell of a heat pipe 12. See column 5, lines 34-40 and Figures 1 and 3 of Smith. Further, Applicant respectfully submits that Smith does not teach or suggest any modification to its disclosure that would result in at least features of a mobile device and combinations thereof as recited in claim 1.

For at least the reasons set forth above, Applicant respectfully submits independent claims 1, 19 and 25 define patentable subject matter. Claims 2-4, 8-10 and 23-24 depend from

claims 1 and 19, respectively, and define patentable subject matter for at least that reason as well as their additionally recited features. Claims 5-7 are canceled without prejudice or disclaimer. Withdrawal of the rejections of claims 1-10, 19 and 23-25 under §§102 and 103 is respectfully requested.

B. The Office Action rejects claims 1, 11-12 and 14-18 under 35 U.S.C. §102(e) or §103(a) over U.S. Patent No. 6,437,981 to Newton et al. (hereafter "Newton"). The rejection is respectfully traversed.

With respect to claim 1, Applicant respectfully submits that Newton does not teach or suggest at least features of a mobile device including a case, a communication module and a heat dissipation system, wherein the heat dissipation system includes a heat pipe coupled to the communication module that extends outside the case, wherein an antenna separate from the heat pipe passes through an inner portion of the heat pipe and combinations thereof as recited.

With respect to claim 12, Applicant respectfully submits that Newton does not disclose at least features of a micro-cooling heat dissipation system that includes a housing having a refrigerant contained within a closed system, wherein the closed system comprises an insulation part between the liquid state refrigerant flow part and each of the first and second heat exchangers and combinations thereof as recited. In contrast, Applicant respectfully submits Newton discloses vapor lines 47 and liquid lines 48 directly connected to each of the evaporator 40 and condenser 42. See Figures 17A-19 and Figure 3, column 4, lines 32-65 and column 5, line 50-column 6, line 60 of Newton.

Further, Applicant respectfully submits Newton does not teach or suggest any modification to its disclosure that would result in at least features of a closed system including an insulation part and combinations thereof as recited in claim 12.

For at least the reasons set forth above, Applicant respectfully submits claims 1 and 12 define patentable subject matter. Claims 11 and 14-18 depend from claims 1 and 12, respectively, and therefore define patentable subject matter for at least that reason as well as their

additionally recited features. Withdrawal of the rejections of claims 1, 11-12 and 14-18 is respectfully requested.

C. The Office Action rejects claim 22 under §103(a) over Smith and U.S. Patent No. 6,997,241 to Chou et al. (hereafter "Chou"). The rejection is respectfully traversed.

Applicant respectfully submits that subject matter indicated to be allowable is incorporated into claim 19. Applicant respectfully submits that Smith and Chou, individually or in combination would not result in at least features recited in claim 19. Claim 22 depends from claim 19 and therefore defines patentable subject matter for at least that reason as well as its additionally recited features. Withdrawal of the rejection of claim 22 under §103 is respectfully requested.

D. Claims 26-33 are newly added by this Amendment and believed to be in condition for allowance. For example, Applicant respectfully submits that Smith, Newton and Chou, individually or in combination, would not result in at least features of a first fluid passage and combinations thereof as recited in claims 28-29. Further, Applicant respectfully submits that Smith, Newton and Chou, individually or in combination, would not result in at least features of a plurality of second guides and combinations thereof as recited in claim 30, a plurality of third guides and combinations thereof as recited in claim 31.

### **CONCLUSION**

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited.

If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **Carl R. Wesolowski**, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this,

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concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,  
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